

MEMORIZE EVERYTHING ON THIS PAGE BEFORE COMING TO YOUR FIRST CHEMISTRY CLASS IN SEPTEMBER! MAKE FLASH CARDS TO HELP YOU! YOU WILL HAVE A TEST ON IT THE FIRST DAY OF CLASS! Practice quizzes are available at <http://www.quia.com/jg/106481.html> **SPELLING COUNTS!**

<u>NAME</u>	<u>CHEMICAL SYMBOL</u>	<u>NAME</u>	<u>CHEMICAL SYMBOL</u>	<u>NAME</u>	<u>CHEMICAL SYMBOL</u>
Aluminum atom	Al	Iodine atom	I	Potassium atom	K
Aluminum ion	Al ³⁺	Iodide ion	I ⁻	Potassium ion	K ¹⁺
		Iodine molecule	I ₂		
Barium atom	Ba			Silver atom	Ag
Barium ion	Ba ²⁺	Iron atom	Fe	Silver ion	Ag ¹⁺
		Iron ions:			
Bromine atom	Br	Ferrous ion	Fe ²⁺	Sodium atom	Na
Bromide ion	Br ⁻	Ferric ion	Fe ³⁺	Sodium ion	Na ¹⁺
Calcium atom	Ca	Lead atom	Pb	Strontium atom	Sr
Calcium ion	Ca ²⁺	Lead ions:		Strontium ion	Sr ²⁺
		Plumbous	Pb ²⁺		
Chlorine atom	Cl	Plumbic	Pb ⁴⁺	Sulfur atom	S
Chloride ion	Cl ⁻			Sulfide ion	S ²⁻
Chlorine molecule	Cl ₂	Magnesium atom	Mg	Sulfur molecule	S ₈
		Magnesium ion	Mg ²⁺		
Chromium atom	Cr			Tin atom	Sn
		Nickel atom	Ni		
Copper atom	Cu	Nickel ions:		Tungsten atom	W
Copper ions:		Nickelous	Ni ²⁺		
Cuprous ion	Cu ¹⁺	Nickelic	Ni ³⁺	Zinc atom	Zn
Cupric ion	Cu ²⁺			Zinc ion	Zn ²⁺
		Nitrogen atom	N		
Fluorine atom	F	Nitride ion	N ³⁻	Mercury atom	Hg
Fluoride ion	F ⁻	Nitrogen molecule	N ₂	Mercury ions:	
Fluorine molecule	F ₂			Mercurous	Hg ₂ ²⁺
		Oxygen atom	O	Mercuric	Hg ²⁺
Gold atom	Au	Oxide ion	O ²⁻		
		Oxygen molecule	O ₂	Phosphorus atom	P
Hydrogen atom	H			Phosphorus molecule	P ₄
Hydrogen ion	H ¹⁺	Platinum atom	Pt		
Hydride ion	H ⁻				
Hydrogen molecule	H ₂				

POLYATOMIC IONS

(1-) charge	(2-) charge	(3-) charge	(1+) charge
Acetate ion C ₂ H ₃ O ₂ ¹⁻	Carbonate ion CO ₃ ²⁻	Borate ion BO ₃ ³⁻	Ammonium ion NH ₄ ¹⁺
Chlorate ion ClO ₃ ¹⁻	Chromate ion CrO ₄ ²⁻	Phosphate ion PO ₄ ³⁻	Hydronium ion H ₃ O ¹⁺
Cyanide ion CN ¹⁻	Dichromate ion Cr ₂ O ₇ ²⁻		
Hydroxide ion OH ¹⁻	Oxalate ion C ₂ O ₄ ²⁻		
Nitrate ion NO ₃ ¹⁻	Peroxide ion O ₂ ²⁻		
Permanganate ion MnO ₄ ¹⁻	Sulfate ion SO ₄ ²⁻		

How to **SUCCEED**

EVERY DAY

IN CLASS:

Learn the material, pay attention, actively participate, follow instructions
Take notes, copy problems, do the problems
Pay attention when going over homework
Correct Homework problems
Note and learn problems that will be on test

EVERY NIGHT

AT HOME:

Read textbook (not just skimming for answers)
Review notes, concepts, and problems from class
Do homework and worksheets when assigned
Check answers to homework and worksheets if available
Use Hints and Help if needed and available
Make corrections to previous assignments if needed

OTHER THINGS:

Make sure I understand concepts and how to do problems
Make sure I know what problems will be on the test
Use tutorial for help with any of the above
Take the class and teacher seriously

Chemistry Concepts and Skills That YOU MUST KNOW AND USE

Polyatomic ions & charges	Dimensional analysis	Using the periodic table
Study skills	Metric conversions	Balancing reactions
Note taking skills	Laboratory and measuring skills	Nomenclature
How to use your calculator	Creating and using graphs	Writing formulas
Algebra skills	Using data tables	Atomic structure
Sigfigs		Stoichiometry

You MUST master all of the above by the end of the first semester of chemistry.

CHEMISTRY IS NOT OFFERED DURING SUMMER SCHOOL! A D or F grade must be made up by REPEATING THE COURSE during the next year.